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Al	PLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/650,135	08/28/2003		Tetsurou Hamada	00682P0072US	6331	
	32116	7590 08/18/2005			EXAMINER		
•	WOOD, PH		KATZ, CLARK	MILLER, CARL STUART			
	SUITE 3800		IREEI	ART UNIT	PAPER NUMBER		
	CHICAGO		1 °	3747			

DATE MAILED: 08/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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· · · · · · · · · · · · · · · · · · ·		Application	n No.	Applicant(s)						
	Office Action Comments	10/650,13	5	HAMADA ET AL.						
	Office Action Summary	Examiner		Art Unit						
		Carl S. Mil		3747						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)🛛	Responsive to communication(s) filed on	5/20/05								
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠	This action is no	on-final.							
3)	Since this application is in condition for all	•	•		e merits is					
	closed in accordance with the practice und	der <i>Ex parte Qu</i>	<i>ayle</i> , 1935 C.D. 11, 45	33 O.G. 213.						
Dispositi	on of Claims	•								
4)🖾	Claim(s) 1-20 is/are pending in the applica	ation.								
	4a) Of the above claim(s) is/are with	hdrawn from coi	nsideration.							
·	Claim(s) is/are allowed.									
•	Claim(s) <u>1-20</u> is/are rejected.									
	Claim(s) is/are objected to.									
8)	Claim(s) are subject to restriction a	ind/or election re	equirement.							
Applicati	on Papers									
9)[	The specification is objected to by the Exa	miner.	•							
10)	The drawing(s) filed on is/are: a) $\Box$	accepted or b)	$\square$ objected to by the E	Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)[]	The oath or declaration is objected to by the	ne Examiner. No	te the attached Office	Action or form P	ГО-152.					
Priority u	inder 35 U.S.C. § 119									
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:  1.⊠ Certified copies of the priority documents have been received.										
2. Certified copies of the priority documents have been received in Application No										
3. Copies of the certified copies of the priority documents have been received in this National Stage										
application from the International Bureau (PCT Rule 17.2(a)).										
* See the attached detailed Office action for a list of the certified copies not received.										
Attachment(s)										
	e of References Cited (PTO-892)		4) Interview Summary							
	e of Draftsperson's Patent Drawing Review (PTO-94) nation Disclosure Statement(s) (PTO-1449 or PTO/S		Paper No(s)/Mail Da  5) Notice of Informal P		O-152)					
	r No(s)/Mail Date <u>10/20/03</u> .	,	6) Other:		•					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/650,135

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6-9, 12-14, and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Kessler ('826).

In particular, the applicant will note that these claims do not require that the two pieces of the casing contain the inlet and outlet, respectively. Seals are included on both ends of the injector and a pressure buffer (44) is also shown (see figure).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-4 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kessler in view of Kawamura.

Kessler applies as noted above and Kawamura teaches the idea of locating the inlet line in the upper section of the casing.

It would have been obvious to modify Kessler by using a top fed injector thereby necessitating an inlet in the top section of the casing as taught by Kawamura since Kawamura taught that such top fed injectors are commonly used in throttle body injection systems such as that to Kessler.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kessler and Kawamura as applied to claim 2 above, and further in view of Mizushima.

Mizushima teaches the use of a grommet (412) located between two casing members for an injector wherein teach casing piece includes an indentation to locate the grommet when the casing halves are put together.

It would have been obvious to modify Kessler as note ad above and to locate the wiring to the injector as taught by Mizushima because the latter was also an intermittent injector located within a casing having two halves.

Claims 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kessler in view of Parrish.

Kessler applies as noted above and Parrish teaches the common practice of using a check valve on the inlet to an injector. It would have been obvious to use a check valve in Kessler because the problem of unwanted backflow also existed in the Kessler device.

Claims 16 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kessler and Kawamura as applied to claim13 above, and further in view of Smith

Smith teaches the use of a vibration isolating sleeve on an injector and the sleeve obviously has a stronger elastic force than a simply O-ring seal would have since it would not serve to isolate the injector from engine vibrations if it did not.

It would have been obvious to isolate the injector tip of Kessler as taught by Smith since vibrations from the engine would have been a problem even though the injection was manifold injection.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl S. Miller whose telephone number is 703-308-2653. The examiner can normally be reached on MTWTHF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry YUEN, can be reached at 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carl S. Millo: Pdmery Exam't,